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**FIFTY-THIRD ANNUAL MEETING,
KANSAS ACADEMY OF SCIENCE.**

Program of the Fifty-third Annual Meeting,

Lawrence, February 18, 19, 1921.

FRIDAY, FEBRUARY 18.

- 10:30 a.m. Reading of minutes of last meeting and secretary's report.
Reading of papers.
Appointment of committees.
- 2:30 p.m. Business meeting.
Reading of papers.
- 6:00 p.m. Dinner by local members to visiting members.
Some good talks.
- 8:00 p.m. Lecture and papers.

SATURDAY, FEBRUARY 19.

- 9:30 a.m. Unfinished business.
Election of officers.
Reading of papers.

PAPERS SUBMITTED FOR THE FIFTY-THIRD SESSION.

1. The Coleoptera of Southwest Utah. *W. W. Knaus.*
2. Notes on *Buprestis confluens* Say. *W. W. Knaus.*
3. An Expedition to Peshawar, N. W. Province, India (1920). *R. K. Nabours.*
4. Restoring Zoology to its Proper Place in the College Curriculum. *H. H. Ninninger.*
5. Public Baths. *J. M. McWharf.*
6. Color in Nature. *J. E. Todd.*
7. A New Nesting Record for the Pine Siskin. *F. F. Crevecoeur.*
8. Additions to the List of Kansas Lepidoptera. *F. F. Crevecoeur.*
9. Additions to the List of Kansas Hymenoptera. *F. F. Crevecoeur.*
10. Some Practical Applications of Disinfectants (Germicides), Antiseptics and Deodorants. *L. E. Sayre.*
11. Botanical Notes for 1920. *Frank Agrelius.*
12. Archaeology of the Tuba-Kayenta Region. *A. B. Reagan.*
13. Some Notes on the Lummi-Nooksack Indians, Washington. *A. B. Reagan.*
14. Flood Myth of the Bois Fort Chippewas. *A. B. Reagan.*
15. Hunting and Fishing of Various Tribes of Indians. *A. B. Reagan.*
16. Insect Pests of Stored Rice. *Elbert S. Tucker.*
17. Birds: Their Life and Activities. *O. P. Dellinger.*
18. A New Alfalfa-hay Worm Near Manhattan, Kan. *Nellie M. Payne.*
19. An Annotated Bibliography of North American References to *Lachnostenra*. *Wm. P. Hayes.*
20. Importance of the Primitive Instincts to the Scientist. *L. C. Wooster.*
21. Volcanic Pumice in Kansas. *L. C. Wooster.*
22. Coyote Pests. *C. H. Sternberg.*
23. Cretaceans of Southern California. *Chas. H. Sternberg.*
24. The Reciprocal Relations of Soil and Insects, with Special Considerations of the Thermal Factor. *James W. McCollough.*
25. Frogs and Frogging. *E. C. O'Roke.*
26. Peace Time Problems Grown Out of the Chemical Warfare Service. *C. I. Reed.*
27. Ground-water Level. *W. A. Cook.*
28. Further Studies in Temperance as Affecting the Development of the Chick. *Mary T. Harman.*
29. The Importance of Abandoning the Use of Trivial Names, Many of Which Were Used in Alchemic Days, for Commercial Products. *E. H. S. Bailey.*

30. Hawaii: Its Peoples, Customs and Scenic Wonders. *L. A. Walworth.*
 31. State Parks. *H. de Forest.*
 32. The Relation of Buried Mountains in Kansas to Oil Production. *Raymond C. Moore.*
 33. The Effect of Cigarette Smoke Upon the Rate of Growth of Young Rabbits. *W. J. Baumgartner.*
 34. On the Preparation of the Aromatic Mustard Oils. *F. B. Dains and C. P. Olander.*
 35. Notes on the Conductivity of Solutions. *H. M. Elsey.*
 36. A Method for Determining Single Potential Differences. *H. P. Cady and H. M. Elsey.*
 37. The Germicidal Value of the Commercial Disinfectants of the Chlorine Group. *G. N. Watson.*
 38. A Possible Rainfall Period Equal to One-ninth the Sun-spot Period. *Dinsmore Alter.*
 39. The Effect of Boiling upon the Iodine Value of Lubricating Oils. *H. C. Allen and H. W. Palkowsky.*
 40. The Industrial Research Movement of To-day. *W. F. Faragher.*
 41. Notes on Values of Industrial and Utility Properties. *P. F. Walker.*
 42. The Development of the Organ of Hearing. *Hubert S. Sheppard.*
 43. Factors of Control in the Development of Conduction Paths in the Brain. *G. E. Coghill.*
 44. On the Production of Hydrocyanic Acid by *Bacillus pyocyaneous.* *A. F. Patty and N. P. Sherwood.*
 45. Further Studies on Influenza. *N. P. Sherwood and J. Welker.*
 46. Further Studies on Influenza. *O. O. Stoland and N. P. Sherwood.*
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Minutes of the Fifty-third Annual Meeting.

The fifty-third annual meeting of the Kansas Academy of Science met in the chemistry lecture room of the University of Kansas, Lawrence, at 10 o'clock, February 18, 1921, and was called to order by the president, Prof. O. P. Dellinger.

The first order of the morning was the reading of the minutes of the previous meeting by the secretary, which were approved.

The secretary gave his annual report, which was also approved.

The President appointed the following committees:

Program Committee: De Forest, Rankin, Watson.

Resolution Committee: McWharf, Knaus, Harman.

The local committee reported that the morning session would continue until 12 o'clock, adjourning until 2 o'clock, the session to continue until 4:30 o'clock, at which time the Academy was invited to attend the Sherwood Eddy meeting in Frazer Hall. At 6:30 a complimentary dinner to visitors would be held at Plymouth Parish House. Papers were read by W. Knaus, J. M. McWharf and G. E. Coghill, after which the session was adjourned until 2 o'clock.

The afternoon session was called to order by the president, who appointed the following further committees:

Nominating Committee: Willard, Sayre, Wooster.

Auditing Committee: B. M. Allen, Nabours, Ninninger.

Membership Committee: The secretary, Rankin, Harman, Coghill.

Publishing Committee: Dains, Willard.

Press Committee: Bailey, Baumgartner, Harshbarger.

Legislative Committee: McWharf, Harshbarger, Bailey, Hughbanks.

Research Committee: B. M. Allen, Ackert, Dains, Willard, Yates.

The reading of papers was resumed by the following members: H. N. Ninninger, Mary T. Harman, C. I. Reed.

H. de Forest had been appointed by the Ecological Society as its representative in this state, and as such representative gave a paper on state parks. His paper was a plea to preserve places of beauty and historical interest in

the state, and asked that a committee be appointed from the Academy to assist him in that work.

Doctor Bailey moved that a committee of three be appointed by the president to coöperate with Doctor de Forest in this work.

The motion carried and the following were appointed: Dr. H. de Forest, chairman; Prof. Roy Rankin, Dr. R. K. Nabours, Dr. R. C. Moore.

On Friday evening the Academy, with a number of interested guests, met at the parish house of the Congregational Church to enjoy a banquet tendered the visiting members by the local society. After the repast Doctor Willard acted as toastmaster in a most happy way, and called on Dean Kelly, Professor Dellinger, Professor Rankin, Dean Sayre, Doctor Bailey, Doctor Wooster and Miss Meeker, who responded to Doctor Willard's call in a most interesting manner. A vote of thanks was given the hosts of the evening for the splendid meal.

At 8 o'clock the president, Professor Dellinger, gave his annual address, taking as his subject, "Birds: Their Habits and Environment," which he handled in an able and interesting way. Professor Alter gave a paper on "A Possible Rainfall Period Equal to One-ninth the Sun-spot Period," which called forth much discussion, especially as to the probability of dry or wet weather for the coming season.

On Saturday morning the meeting was opened by the reading of the treasurer's report, which was referred to the auditing committee and approved by it.

The nominating committee made its report as follows:

President, Roy Rankin, Hays; first vice president, R. K. Nabours, Manhattan; second vice president, W. R. B. Robertson, Lawrence; secretary, E. A. White, Lawrence; treasurer, L. D. Havenhill, Lawrence. Executive Council: Dr. Mary T. Harman, Manhattan; W. J. Baumgartner, Lawrence; Frank U. G. Agrelius, Emporia; W. A. Harshbarger, Topeka.

The secretary was instructed to cast the vote for the officers nominated, and they were declared unanimously elected.

Doctor Elsey made the following motion: That authors estimate the time required for their papers, and those desiring overtime must obtain permission for the same from the executive committee.

Papers were read by the following members: Nabours, Wooster, Cady, Elsey, Walworth, Sherwood, Walker, Shephard, Agrelius and Bailey.

On motion of Doctor Bailey, the time and place of the next meeting was left to the executive committee.

The resolutions committee made the following report, which was accepted:

It is resolved, That the thanks of the Kansas Academy of Science are due to the authorities and faculty of the State University for furnishing rooms for the meetings of the fifty-third annual sessions of the Academy and for other courtesies shown.

It is further resolved, That the visiting members of the Academy tender the resident members their appreciation for the banquet served the evening of the first day's sessions.

The Academy adjourned to meet at the call of the executive committee.

REPORT OF THE TREASURER.

Expenses of the secretary	\$54.39
Traveling expenses of the executive committee	26.54
Total expenses, 1921	\$80.93
Paid in part from Academy money appropriated last year.....	41.22
Balance for this year's expense	\$39.71

Receipts brought forward	\$800.13
Received from dues	133.00
Interest	31.87
Received from sale of Transactions	1.00
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Total receipts	\$966.00
Total expenses	39.71
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Balance on hand	\$926.29

L. D. HAVENHILL, *Treasurer.*